

Converting Colors

XYZ(13.7716, 18.8724, 77.2499)

Have a look what the booklet for
XYZ(13.7716, 18.8724, 77.2499)
contains.

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Color

**XYZ(23.2313, 23.8341,
77.5048)**

Conversions

Conversions Part 1

Format	Color
Hex	008AE5
RGB	0, 138, 229
RGB Percent	0%, 54%, 90%
CMY	0.9998, 0.4588, 0.1020
CMYK	1.00, 0.40, 0.00, 0.10
HSL	204°, 100%, 45%
HSV	204°, 100%, 90%
XYZ	23.2313, 23.8341, 77.5048
YIQ	107.1120, -111.4590, -0.9550

Conversions

Conversions Part 2

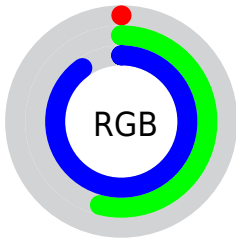
Format	Color
R _{YB}	0, 86, 229
Decimal	35557
CIE _{Lab}	55.92, 2.61, -54.57
CIE _{LCh}	56, 54.635, 272.741
Y _{xy}	23.8341, 0.1865, 0.1913
Android (android.graphics.Color)	4278225637 (0xFF008AE5)
YUV	107.1120, 60.0908, -93.9372
Hunter-Lab	48.8202, -0.4953, -59.9521

Details

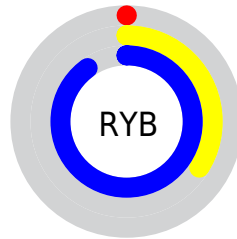
The XYZ color **23.2313, 23.8341, 77.5048** is a dark color, and the websafe version is hex **0099FF**. The color can be described as dark washed azure. A complement of this color would be **36.0594, 24.1498, 2.7624**, and the grayscale version is **13.8719, 14.5943, 15.8932**.

A 20% lighter version of the original color is **42.5065, 47.4849, 101.5329**, and **11.1152, 10.1619, 40.9108** is the 20% darker color. If you saturate the color by 10%, you get **23.2285, 23.8282, 77.5044**, and if you desaturate by 10%, it is **24.9451, 26.7384, 77.9756**.

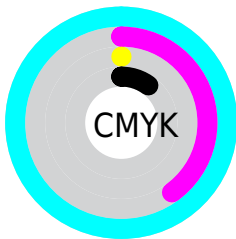
Distribution



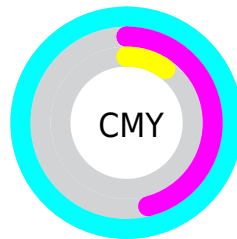
- Red (0%)
- Green (54%)
- Blue (90%)



- Red (0%)
- Yellow (34%)
- Blue (90%)



- Cyan (100%)
- Magenta (40%)
- Yellow (0%)
- Black (10%)



- Cyan (100%)
- Magenta (46%)
- Yellow (10%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 23.2313, 23.8341, 77.5048 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 23.2313, 23.8341, 77.5048 by changing the saturation by 10% instead.

■ 23.2313, 23.8341,
77.5048

■ 23.2313, 23.8341,
77.5048

261.4240,
271.9807, 505.9667

■ 14.8860, 15.2106,
57.1532

■ 48.2367, 49.7593,
131.6313

■ 8.8252, 8.9673,
40.7181

■ 65.6276, 67.8299,
166.2434

■ 4.6836, 4.7199,
27.7808

■ 86.7643, 89.8182,
206.4460

■ 2.0956, 2.0839,
17.9229

■ 112.0123,
116.1087, 252.6577

■ 0.6868, 0.6555,
10.7258

■ 141.7369,
147.0858, 305.2972

■ 0.0000, 0.0000,
5.7709

176.3035,

■ 0.0000, 0.0000,

183.1339, 364.7828

2.6398

216.0774,
224.6374, 431.5331

■ 0.0000, 0.0000,
0.9129

■ 0.0000, 0.0000,
0.0000

■ 23.2313, 23.8341,
77.5048

■ 23.2313, 23.8341,
77.5048

■ 23.2285, 23.8282,
77.5044

■ 24.9451, 26.7384,
77.9756

■ 27.1862, 30.0806,
78.5026

■ 30.0906, 33.9348,
79.0935

■ 33.7376, 38.3455,
79.7526

■ 38.1942, 43.3505,
80.4838

■ 43.5191, 48.9837,
81.2904

■ 49.7654, 55.2755,
82.1757

■ 56.9815, 62.2543,
83.1424

■ 65.2123, 69.9461,
84.1932

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



17.5988, 23.8341, 69.9462



23.2313, 23.8341, 77.5048



29.7686, 23.8341, 66.8166

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



23.2313, 23.8341, 77.5048



34.2951, 23.8341, 11.4688



13.5874, 23.8341, 13.1978

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



23.2313, 23.8341, 77.5048



36.0594, 24.1498, 2.7624

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



16.7735, 23.8341, 6.4707



23.2313, 23.8341, 77.5048



28.5940, 23.8341, 5.8423

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



23.2313, 23.8341, 77.5048



36.8468, 23.8341, 24.3450



22.0856, 23.8341, 4.5552



12.6725, 23.8341, 27.6267

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



23.2313, 23.8341, 77.5048



33.5861, 23.8341, 52.7501



22.0856, 23.8341, 4.5552



14.3954, 23.8341, 10.2313

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



23.2323, 23.8348, 77.5054



63.3404, 70.3750, 104.8531



29.7741, 56.7410, 18.5758



12.8044, 14.3133, 22.3378



0.0000, 0.0000, 0.0000



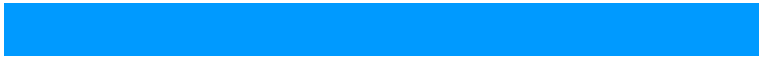
20.3446, 21.4041, 23.3091

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



23.2323, 23.8348, 77.5054



29.5470, 30.2140, 98.8823



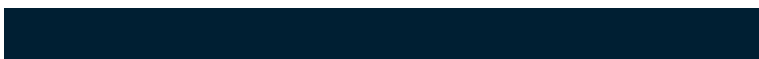
14.5302, 6.4307, 74.6048



14.3016, 15.3246, 18.3485



13.4015, 13.8651, 44.3531



1.0805, 1.2049, 3.3076

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



36.9015, 18.4944, 25.6700



47.0431, 23.5813, 32.4889



53.5024, 59.0358, 8.5768



14.7398, 14.5131, 16.8303



21.1580, 10.5974, 14.9928



1.6090, 0.8013, 1.3475

Previews

White Background



This preview shows how the XYZ color 23.2313, 23.8341, 77.5048 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 23.2313, 23.8341, 77.5048 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

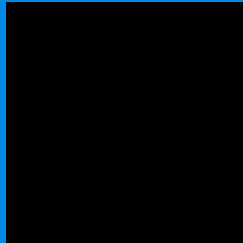
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 23.2313, 23.8341, 77.5048

Background



This preview shows how black text looks on a background with the XYZ color 23.2313, 23.8341, 77.5048.



This preview shows how white text looks on a background with the XYZ color 23.2313, 23.8341,

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

23.2313, 23.8341, 77.5048

Protanopia

25.9913, 23.7260, 72.3169

Deuteranopia

24.7505, 23.9709, 78.1853



Tritanopia

16.8479, 23.6830, 36.4842

Trichromacy



Original Color

23.2313, 23.8341, 77.5048

Protanomaly

23.9026, 23.2034, 74.4531

Deuteranomaly

23.8864, 23.7336, 78.1850

Tritanomaly

18.6250, 23.4072, 48.8838

Monochromacy



Original Color

23.2313, 23.8341, 77.5048

Achromatopsia

13.9749, 14.7027, 16.0113

Achromatomaly

14.4482, 16.4202, 31.6861

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.2313, 23.8341, 77.5048 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(0, 138, 229)` looks like.

```
.text, #text, p{  
    color:rgb(0, 138, 229)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(0, 138, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 138, 229) }
```

Border

The CSS property to change the border of an element to XYZ 23.2313, 23.8341, 77.5048 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(0, 138, 229) }
```


If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(0, 138, 229) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(0, 138, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 138, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 138, 229);  
box-shadow:4px 4px 4px 4px rgb(0, 138,  
229) }
```

Background

The CSS property to change the background color of an element to XYZ 23.2313, 23.8341, 77.5048 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 138, 229) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(0, 138,  
229) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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